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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/089,485		03/27/2002	Ken-Ichi Hanada	4239-62489	7424	
36218	7590	03/21/2005		EXAM	EXAMINER	
•		RKMAN, LLP	CANELLA, KAREN A			
		STREET, SUITE #1 DE CENTER	600	ART UNIT	PAPER NUMBER	
PORTLANI	o, or 9	97204-2988		1642		

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
	000-1-0	10/089,485	HANADA ET AL.	
	Office Action Summary	Examiner	Art Unit .	
		Karen A. Canella	1642	
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the	correspondence address	
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repoperiod for reply is specified above, the maximum statutory period retoreply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply will, by stature to reply will by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tile ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication (ED (35 U.S.C. § 133).	n.
Status				
1)	Responsive to communication(s) filed on			
·		is action is non-final.		
3)□	Since this application is in condition for allow closed in accordance with the practice under			5
Disposit	ion of Claims			
5) 6) 7)	Claim(s) 1-41 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-41 are subject to restriction and/or	awn from consideration.		
Applicat	ion Papers			
9)[The specification is objected to by the Examir	ner.		
10)□	The drawing(s) filed on is/are: a) ac	ccepted or b) objected to by the	Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
11)[Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	,	·	d).
Priority :	under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure. See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachmen	nt(s)			
	ce of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail D		,
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date		Patent Application (PTO-152)	

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DETAILED ACTION

1. Claims 1-41 are pending.

Election/Restrictions

.2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-32 and 37-41, drawn to a method of treating a subject having a neoplasm expressing FGF-5 comprising modulating an immune response to FGF-5 or modulating FGF-5 expression or activity, and a method of lysing a cell of an FGF-5 expressing neoplasm in a subject, comprising sufficiently enhancing an immune response against FGF-5.

Group 2, claim(s) 33-36, drawn to a method for detecting an enhanced susceptibility of a subject to a disease of abnormal FGF-5 expression, said method comprising detecting an increase in FGF-5 protein in the cell of a subject.

3. The inventions listed as Groups 1 and 2 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the claims lack a special technical feature over the art because claims 33-36 are obvious over the prior art. Kornmann et al (Oncogene, 1997, Vol. 15, pp. 1417-1424, reference submitted March 27, 2002) teach that FGF-5 participates in autocrine and paracrine pathways that promote pancreatic cancer growth in vivo (abstract). Albino et al (Cancer Research, 1991, Vol. 51, pp. 4815-4820, reference submitted March 27, 2002) teach that FGF-5 mRNA expression can be used as a marker for malignant melanoma (abstract). Werner et al (Oncogene, 1991, Vol. 6, pp. 2137-2144, reference submitted March 27, 2002) teach that the expression of FGF-5 amplifies and prolongs the induction of stimulation by serum and growth factors and that a deregulated or permanent expression of FGF-5 may lead to the neoplastic transformation of cells (page 2142, second column, second full paragraph). Thus

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it would be obvious to one of skill in the art at the time the invention was made to use the expression of FGF-5 to detect an enhanced susceptibility to pancreatic cancer or to melanoma. One of skill in the art would have been motivated to do so because the teachings of Kornmann et al and Albino et al verify that FGF-5 is expressed in the malignant pancreas and melanoma, and the teachings of Werner et al suggest that the deregulated or permanent expression of FGF-5 leads to the neoplastic state.

4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Canella whose telephone number is (571)272-0828. The examiner can normally be reached on 10 a.m. to 9 p.m. M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on (571)272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Karen A. Canella, Ph.D.

3/17/2005

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